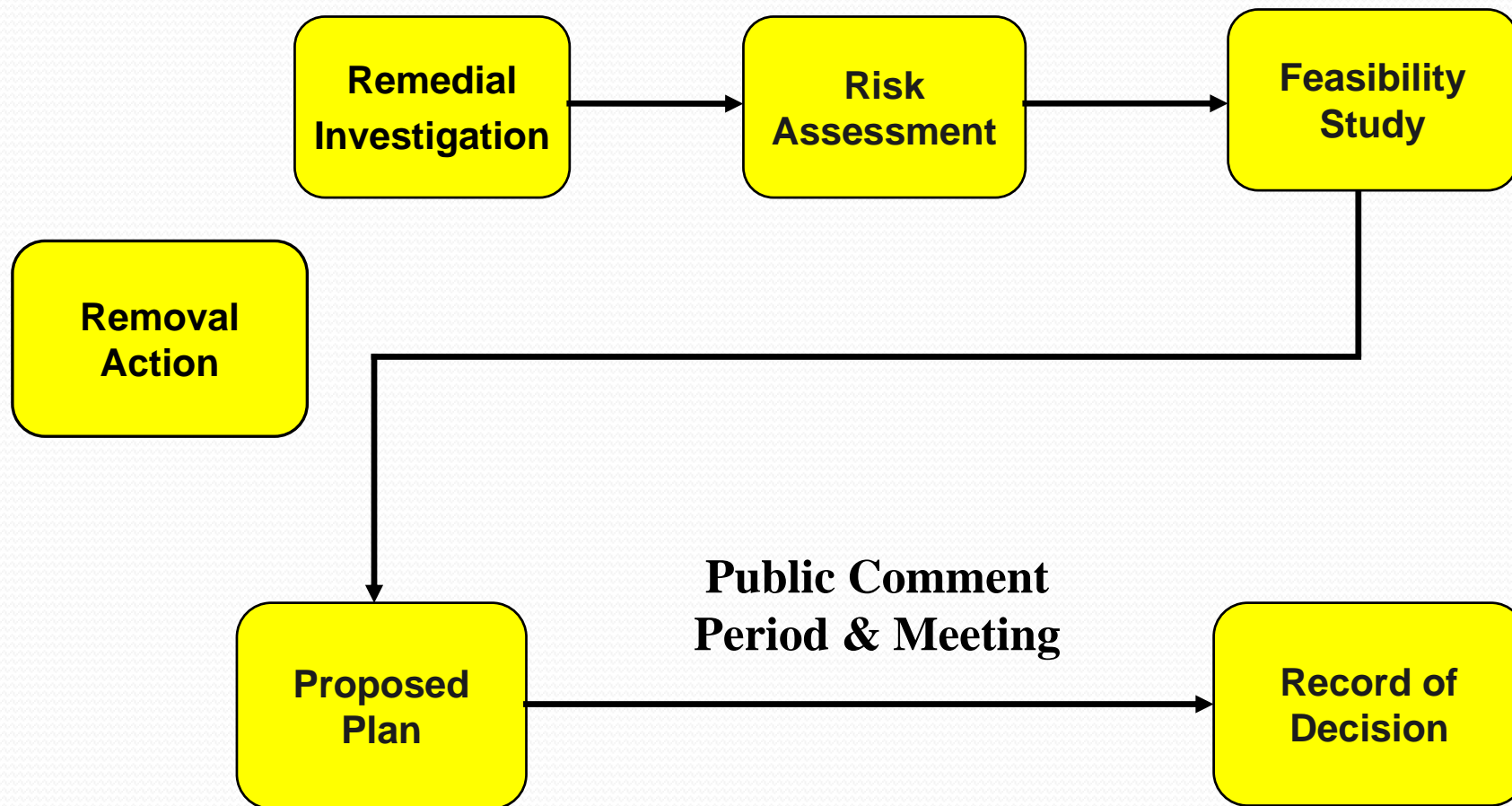


Remedial Investigation & Feasibility Study Update

San Jacinto River Waste Pits Superfund Site

Public Meeting
September 22, 2011

Superfund Process



RI/FS Field Investigations

Work is being done by the site Potentially Responsible Parties under oversight of EPA, TCEQ, and other agencies.

Sample/Data Collection:

- Sediment samples on the Site & background areas.
- Soil samples collected on the Site & background areas.
- Groundwater samples (shallow & deep) below impoundments.
- Tissue samples (catfish, crab, killifish & clams) on the Site & background.
- Fate & transport studies.

San Jacinto River Waste Pits Superfund Site

River sediment samples within
preliminary site boundary.



Waste Pits



Southern Impoundment



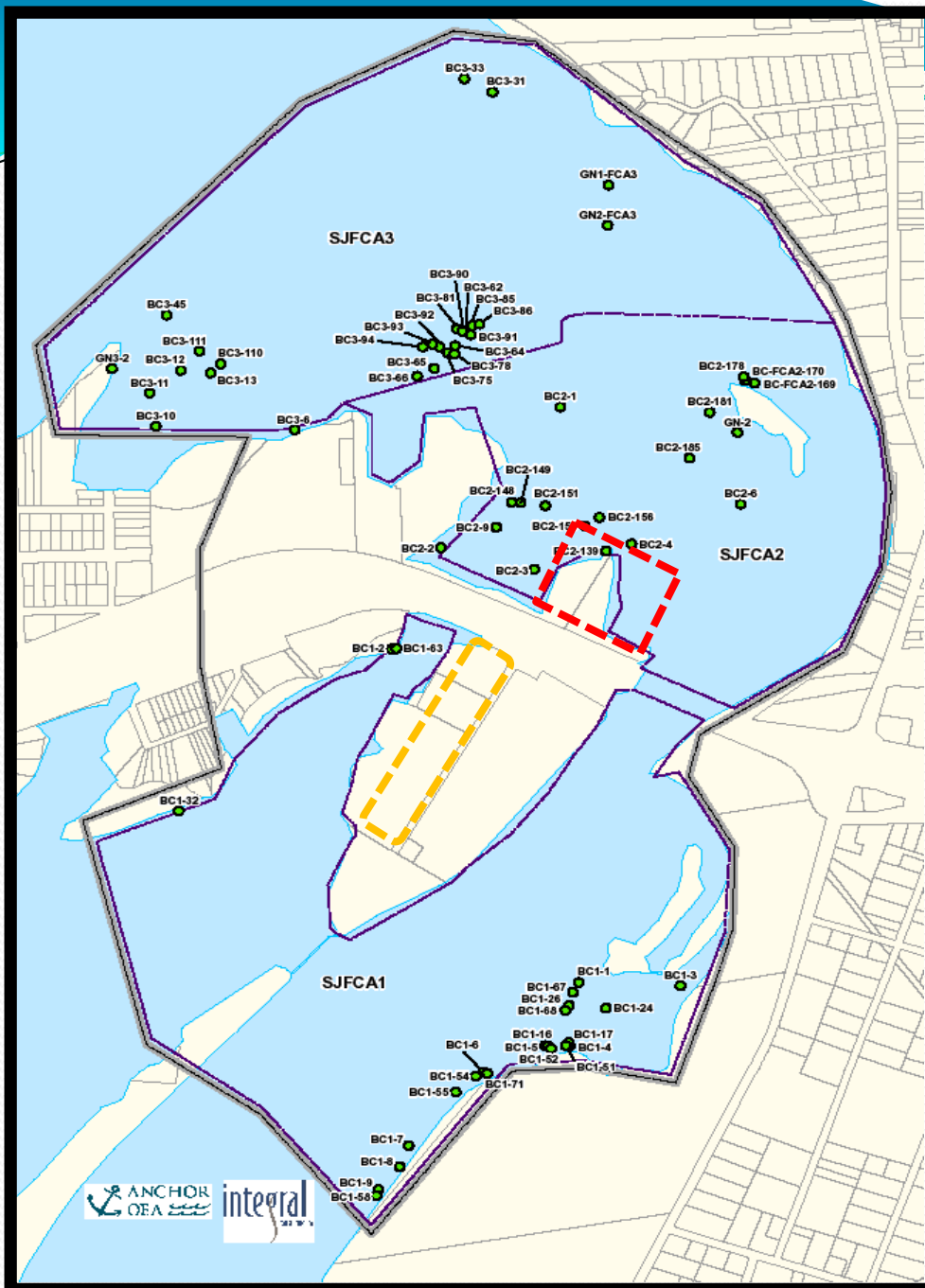
Soil samples within preliminary site boundary.



Soil Investigation Areas and Soil Sampling Locations
Within the Preliminary Site Perimeter
SJRWPF Soil FSR
SJRWPF Superfund/MIMC and IPC

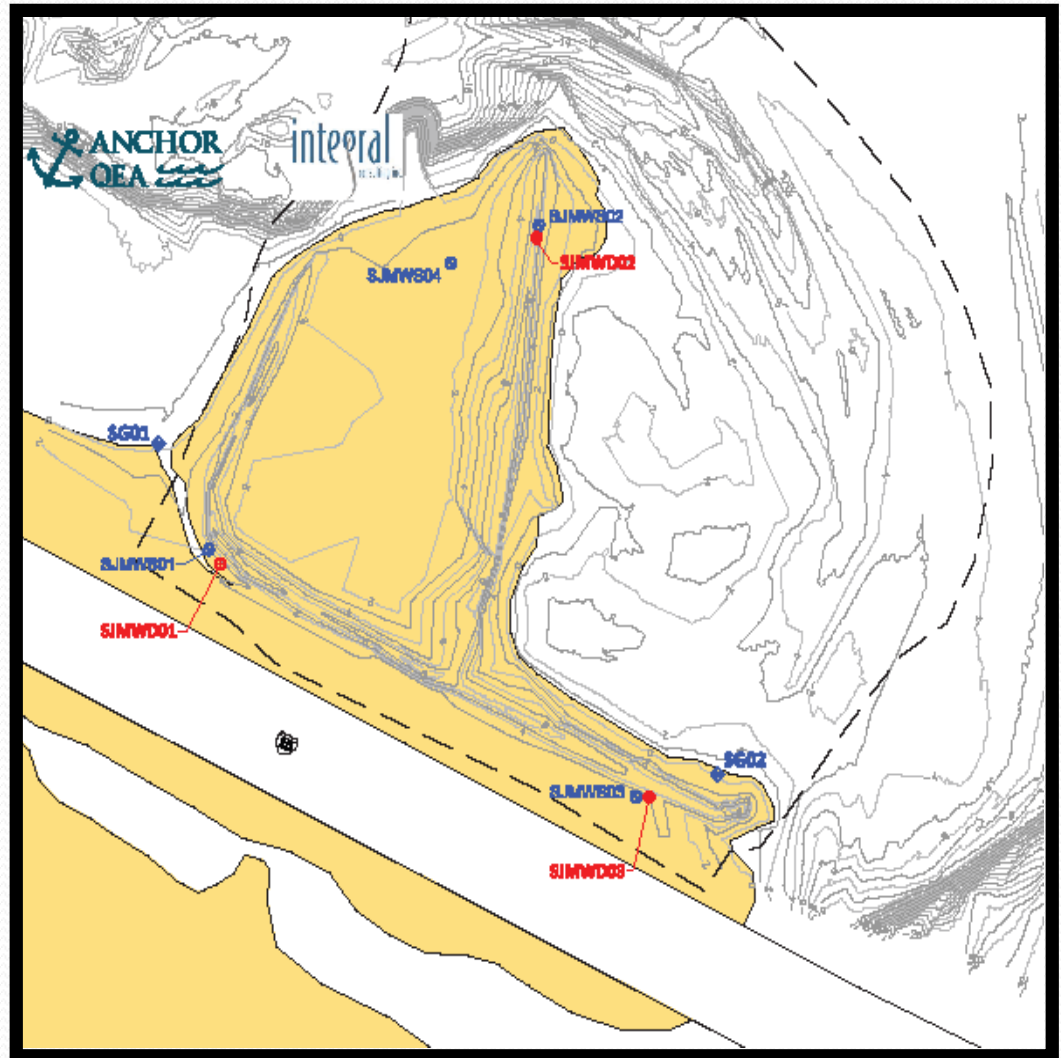
San Jacinto River Waste Pits Superfund Site

Hardhead catfish sample
locations within preliminary
site boundary.

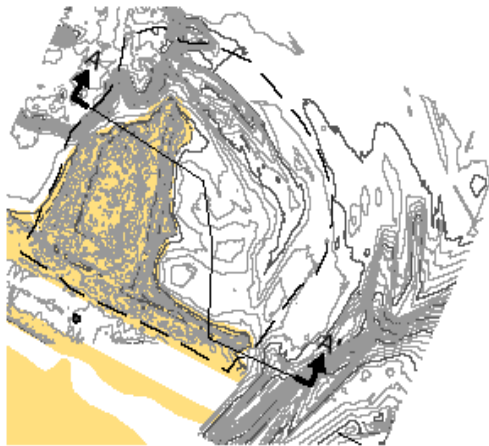
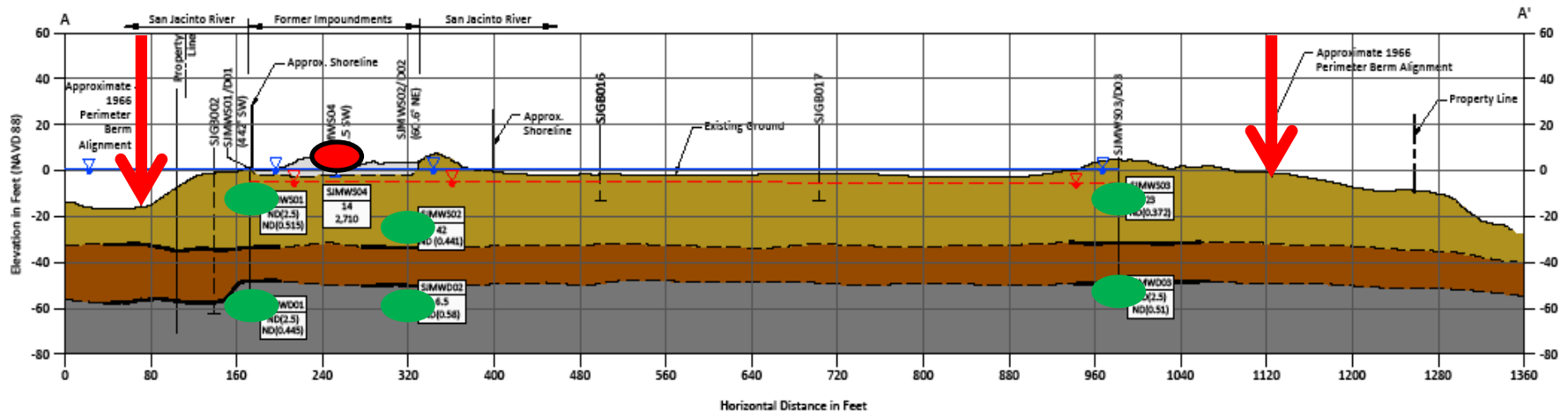


San Jacinto River Waste Pits Superfund Site

Groundwater sample locations



San Jacinto River Waste Pits Superfund Site Groundwater Cross-Section



Dioxin not detected in groundwater

2710 pg/L Dioxin in water within waste material.

Future Work

Sampling/Analysis:

- Chemical fate and transport analysis.
- Additional sampling in Southern Impoundment.
- Additional background sediment and tissue sampling.

Reports:

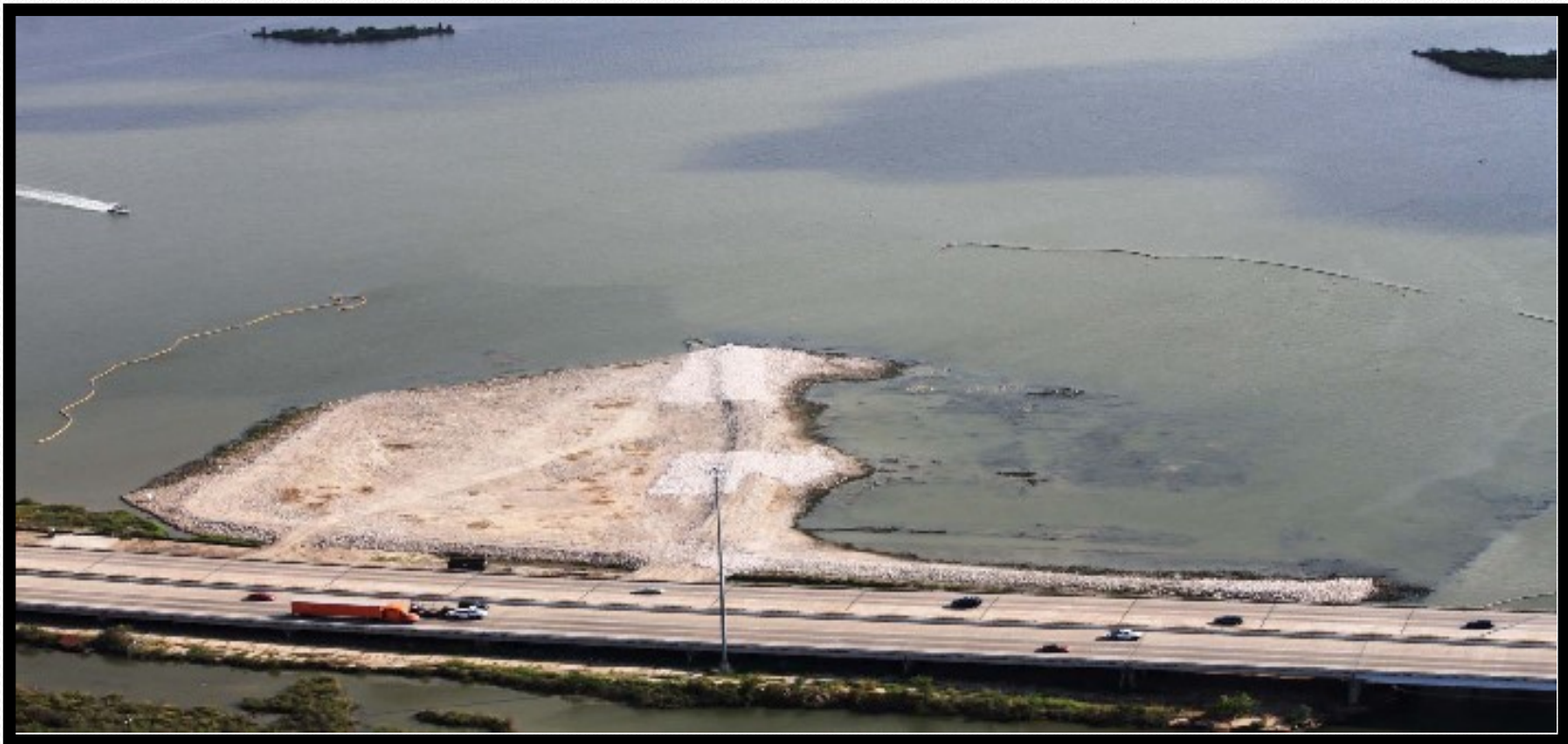
- June 2012: Baseline Ecological Risk Assessment report to be completed.
- Oct 2012: Baseline Human Health Risk Assessment report to be completed.
- Dec 2012: Remedial Investigation report to be completed.
- Aug 2013: Feasibility Study to be completed.

Record of Decision: **In 2014, the “ROD” will select the final remedy for the waste pits & entire site following a public comment period & public meeting.**

San Jacinto River Waste Pits Superfund Site

Initial Assessment of Sampling Results

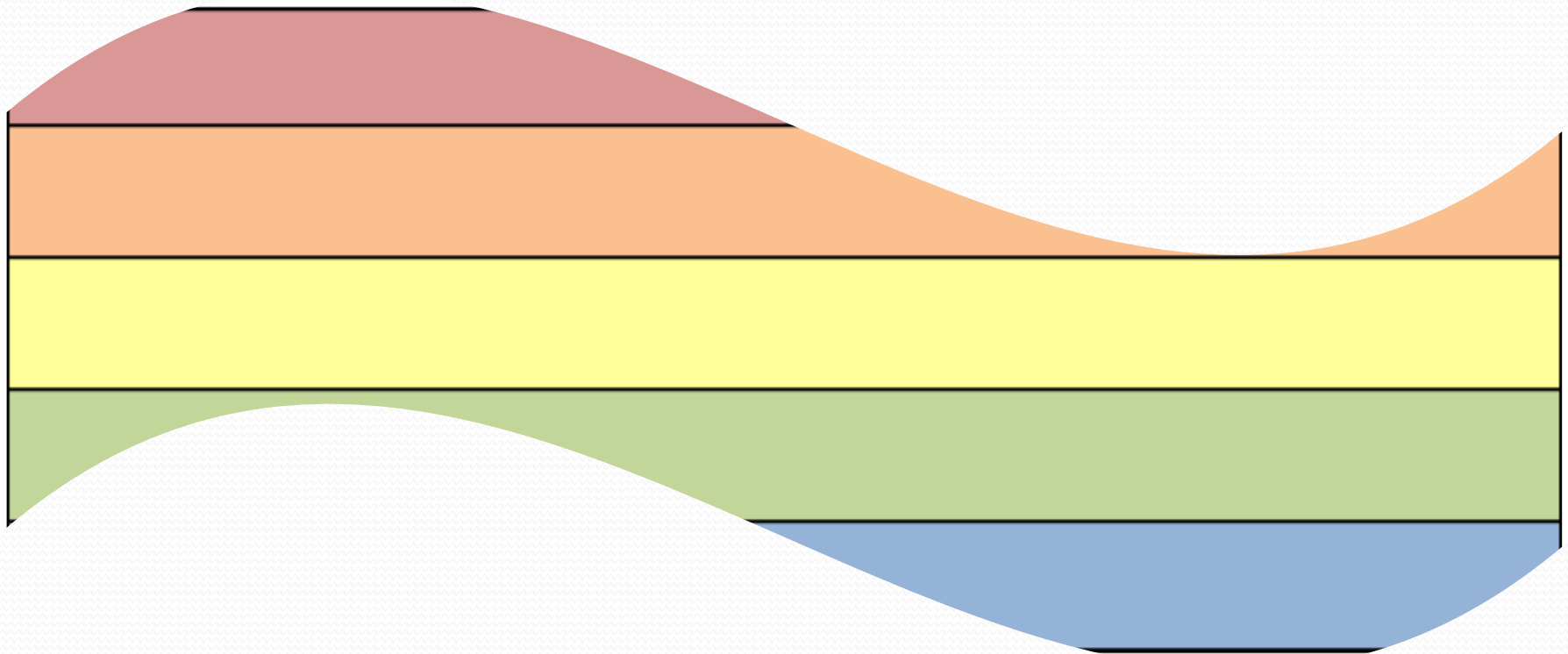
- Sediment & soil samples.
- Residential soil samples.



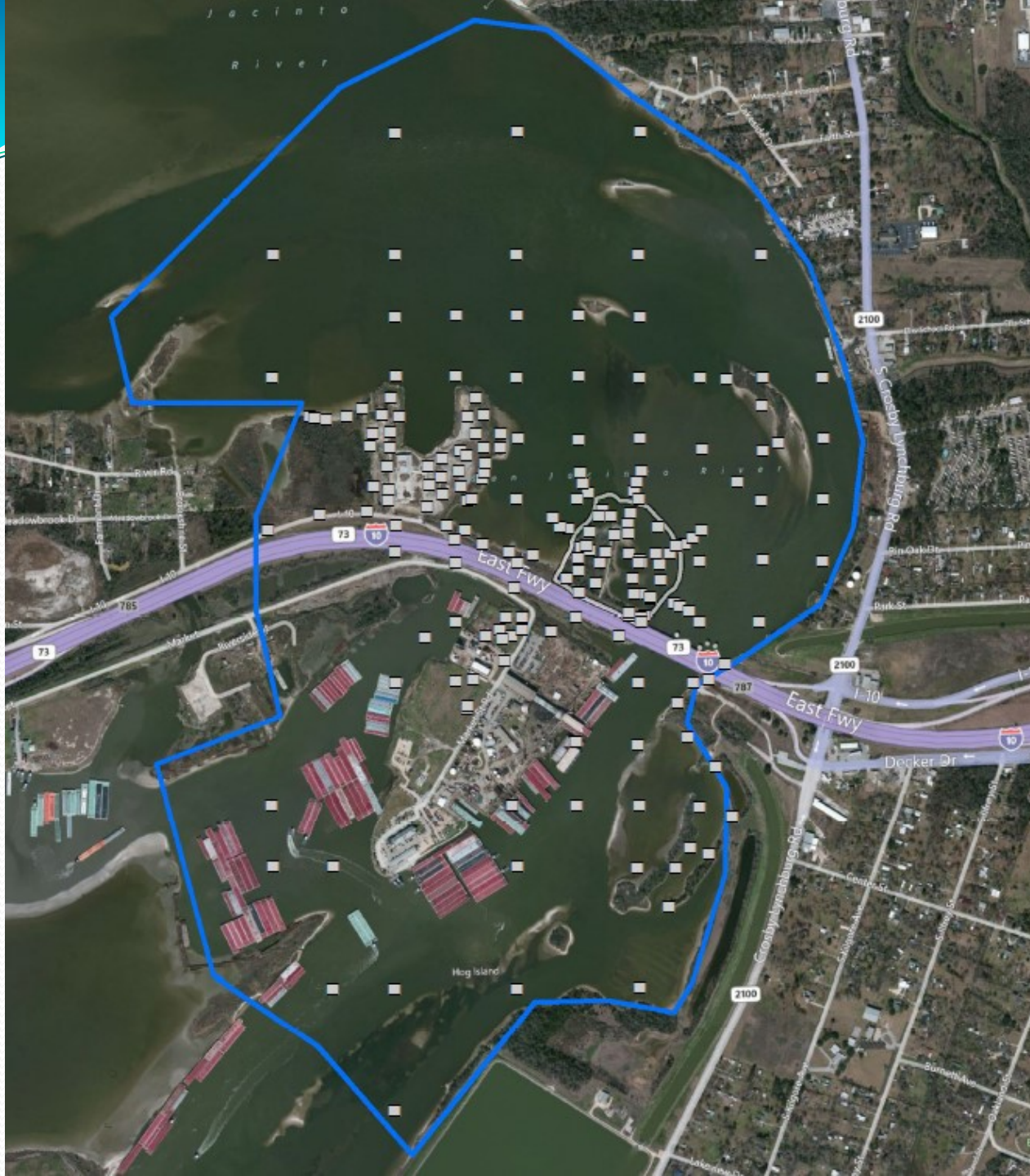
San Jacinto River Waste Pits

Superfund Site

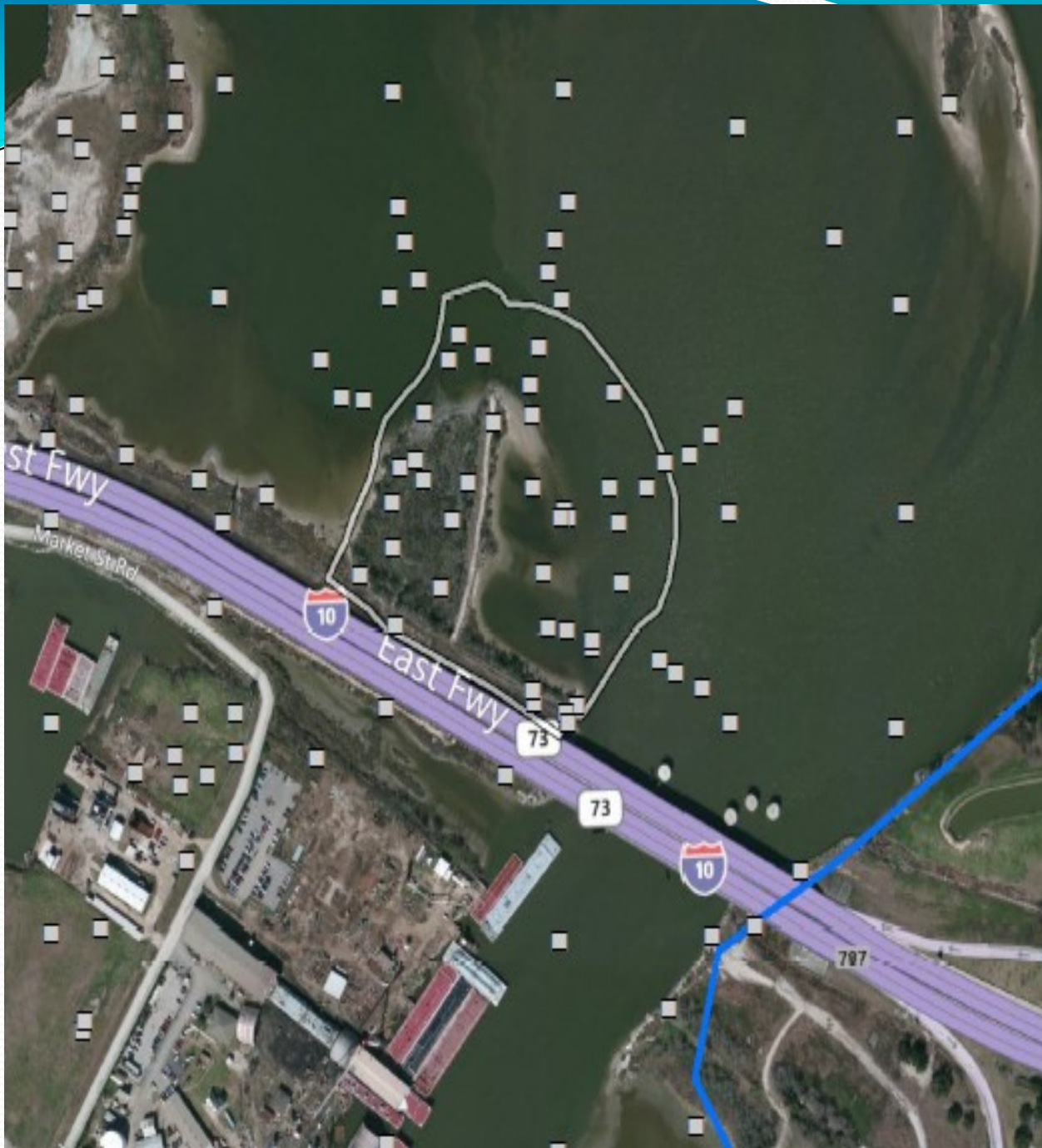
Preliminary Risk Results:
Color-Coded



Soil or Sediment Sampling Points



Soil or Sediment Sampling Points in or surrounding the actual Northern Impoundments



Preliminary color-coded risk evaluation for surface soils and surface sediments surrounding the site



>5000 ppt TEQ

<5000, >665 ppt TEQ

≤665 ppt TEQ



>5000 ppt TEQ

<5000, >665 ppt TEQ

≤665 ppt TEQ



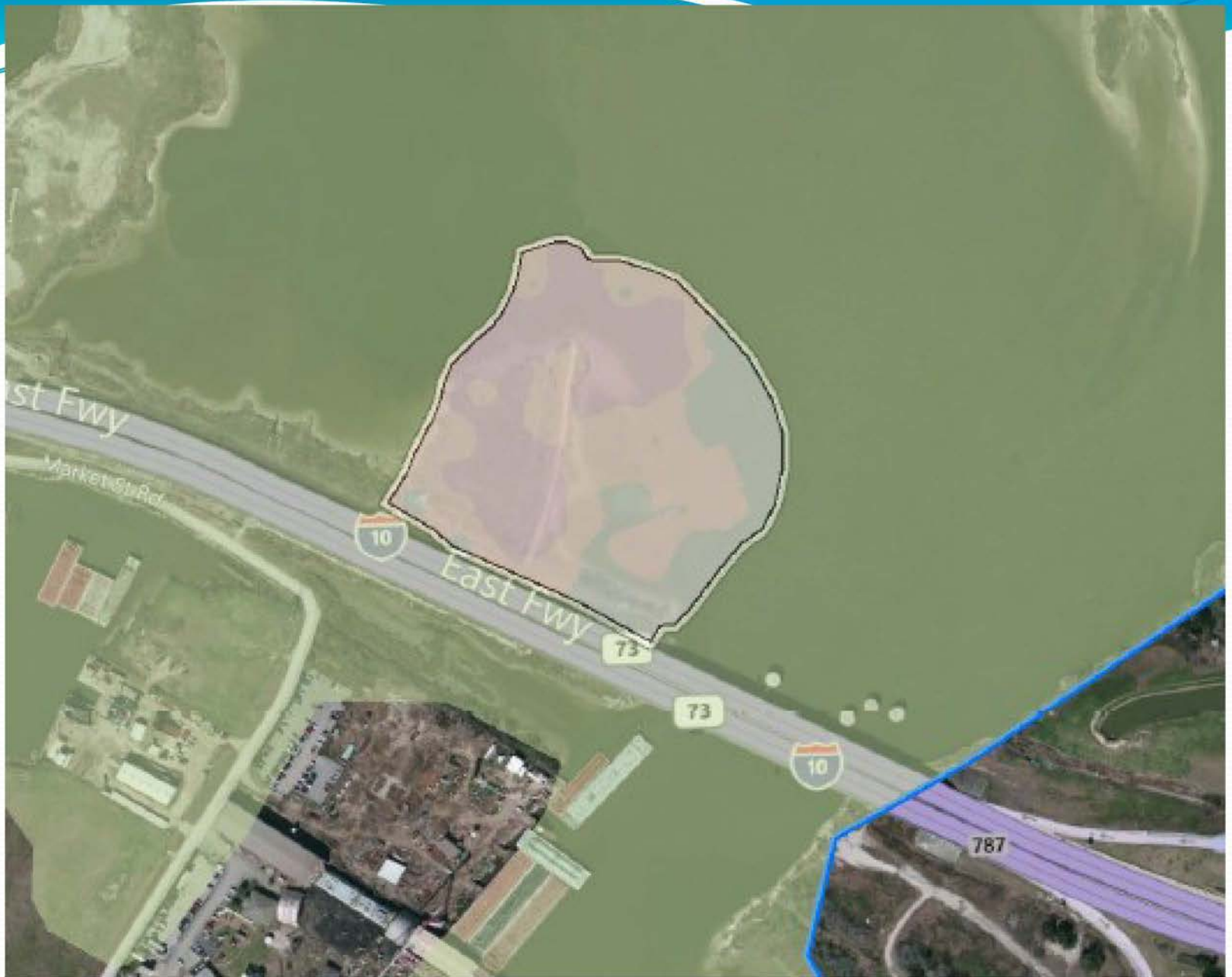
Industrial Surface Soil		
	Contact	Ingestion
>5000 ppt TEQ	Avoid any Contact with soil	Do Not Ingest Soil
<5000, >665 ppt TEQ	Contact with Soil Should Be Minimized	Accidental Ingestion of Soil Should Be Avoided
≤665 ppt TEQ	Risk of Periodic Contact with Soil within Acceptable Limits	Risk of Infrequent Accidental Ingestion of Soil within Acceptable Limits

Industrial Surface Sediment

	Contact	Ingestion	Swimming	Wading
>5000 ppt TEQ	Avoid any Contact with Sediment	Avoid any Accidental Ingestion of Sediment	Do Not Swim	Do Not Wade
<5000, >665 ppt TEQ	Contact with Sediment should be as minimized	Accidental Ingestion of Sediment should be avoided	Avoid Swimming	Avoid Wading
≤665 ppt TEQ	Brief Periods of Contact with Sediment (with reasonable hygiene) within Acceptable Limits	Risk of Infrequent Accidental Ingestion of Sediment within Acceptable Limits	Risk of Infrequent Swimming (with reasonable hygiene) within Acceptable Limits	Risk of Infrequent Wading (with reasonable hygiene) within Acceptable Limits

Adhere to all posted Fish Advisories





>1000 ppt TEQ

<1000, >50 ppt TEQ

≤50 ppt TEQ

San Jacinto River Waste Pits

August 2011 Residential Soil
Samples for Dioxin
and Furan Analysis

- Sample Location
- Zero Ft. Contour
- Northern Impoundment
- Southern Impoundment
- 100 Yr. Floodplain



Sources:
Sample Locations: Anchor QEA
Zero Ft. Contour: Anchor QEA
Impoundment Perimeters: EPA Region 6
100 Yr. Floodplain: Anchor QEA
Background Roads: ESRI Streetmap

EPA makes no claims as to the
accuracy of the data or its suitability
for any particular use.

Map created: September 19, 2011



EPA Region 6
Superfund Division
Dallas, Texas
20110919BGC01



Residential Surface Soil		
	Contact	Ingestion
>1000 ppt	Avoid any Contact with soil	Do Not Ingest Soil
<1000, >50ppt TEQ	Contact with soil should be minimized	Accidental Ingestion of soil should be avoided
<50 ppt TEQ	Risk of Periodic Contact with Soil (with reasonable hygiene) within Acceptable Limits	Risk of Infrequent Accidental Ingestion of Soil within Acceptable Limits

San Jacinto River Waste Pits Superfund Site

For More Information

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Texas Commission on Environmental Quality

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512.239.3844

Site Repository
Highlands Public Library, Stratford Branch
509 Stratford Street, Highlands Texas

San Jacinto Waste Pits Superfund Site on the Internet

www.sanjacintowastepits.com or
www.epa.gov/region6/6sf/pdf/files/0606611.pdf